THE PHILIPPINE JOURNAL OF SCIENCE

VOLUME 58

SEPTEMBER TO DECEMBER, 1935
WITH 36 PLATES AND 7 TEXT FIGURES

MANILA
BUREAU OF PRINTING
1935

295967

DEPARTMENT OF AGRICULTURE AND COMMERCE

EULOGIO RODRIGUEZ, A.B., *Secretary*

JORGE B. VARGAS, A.B., LL.B., *Under Secretary*

VICTOR BUENCAMINO, D.V.M., *Acting Under Secretary*

THE PHILIPPINE JOURNAL OF SCIENCE

Published by the Bureau of Science, Department of Agriculture and Commerce

[Entered at the Post Office at Manila, P. I., as second-class matter.]

A. S. ARGÜELLES, B.S., *Editor*

LEOPOLDO A. FAUSTINO, E.M., PH.D., *Associate Editor*

RICHARD C. MCGREGOR, A.B., *Managing Editor*

CONTRIBUTING EDITORS

Chemistry

MANUEL L. ROXAS, PH.D.; A. P. WEST, PH.D.; T. DAR JUAN, PHAR.D.
F. D. REYES, B.S.; F. T. ADRIANO, PH.D.; R. H. AGUILAR, CH.E.
A. J. HERMANO, SC.D.; J. C. ESPINOSA, B.S. IN CH.E.
MARIA Y. OROSA, PH.C., M.S.

Geology

V. ELICAÑO, B.S.; Q. A. ABADILLA, E.M.; JOSÉ M. FELICIANO, PH.D.

Experimental Medicine

ONOFRE GARCIA, M.D.; H. W. WADE, M.D.; ARTURO GARCIA, M.D.
DANIEL DE LA PAZ, M.D.; CRISTOBAL MANALANG, M.D.
VICTOR BUENCAMINO, D.V.M.; TEODULO TOPACIO, D.V.M., D.SC.

Clinical Medicine

LIBORIO GOMEZ, M.D., PH.D.; F. CALDERON, L.M.
JACOBO FAJARDO, M.D.; JOSÉ ALBERT, M.D.; H. LARA, M.D.
JOSÉ RODRIGUEZ, M.D.; CARMELO REYES, M.D.

Botany

WILLIAM H. BROWN, PH.D.; J. K. SANTOS, PH.D.; P. L. SHERMAN, PH.D.
LEON MA. GUERRERO, PHAR.D.; A. F. FISCHER, C.E., M.F.
EDUARDO QUISUMBING, PH.D.; T. G. FAJARDO, PH.D.
JOAQUIN MARAÑON, SC.D; RAFAEL B. ESPINO, PH.D.
NICANOR G. TEODORO, PH.D.; VICENTE G. ALDABA, PH.D.
FELICIANO M. CLARA, PH.D.; JUAN P. TORRES, PH.D.; LUIS P. REYES, B.S.F.

Zoölogy

MARCOS A. TUBANGUI, D.V.M.; HERACLIO R. MONTALBAN, M.A.
LEOPOLDO B. UICHANCO, SC.D.; GONZALO MERINO, PH.D.
FAUSTINO Q. OTANES, M.S.; HILARIO A. ROXAS, PH.D.
MANUEL D. SUMULONG, M.S., D.V.M.; LOPE M. YUTUC, D.V.M.
DEOGRACIAS VILLADOLID, PH.D.; CANUTO G. MANUEL, SC.D.

Anthropology

H. O. BEYER, M.A.; OTTO JOHNS SCHEERER, M.A.; E. E. SCHNEIDER, B.L.

CONTENTS

No. 1, September, 1935

[Issued October 23, 1935.]

Page.

DANSER, B. H. A revision of the Philippine Loranthaceæ..... 1
Two plates.

No. 2, October, 1935

[Issued November 5, 1935.]

SUGINO, KOUHEI. The antigenic properties of the cholera vaccine prepared by the Philippine Bureau of Science..... 153

ALICANTE, M. M. Nitrification in acid soils..... 163

MARAÑON, JOAQUIN, and ELENA CAGUICLA. Philippine ginger in relation to the United States Food and Drugs Act..... 171
Two plates.

SKVORTZOW, B. W. Diatoms from Calcutta, India..... 179
One plate.

MANUEL, CANUTO G. Life history and economic importance of Cabanis's weaver..... 193
One plate.

ALEXANDER, CHARLES P. New or little-known Tipulidæ from eastern Asia (Diptera), XXVII 213
Four plates.

GRESSITT, J. LINSLEY. New longicorn beetles from Formosa, II: (Coleoptera: Cerambycidæ) 253

GRESSITT, J. LINSLEY. New longicorn beetles from the Philippines, Borneo, and Siam (Coleoptera: Cerambycidæ)..... 267

MONTILLA, JOSÉ R. A review of Philippine Menidæ and Gerridæ.... 281
Three plates.

No. 3, November, 1935

[Issued January 9, 1936.]

DE JESUS, ZACARIAS. Lymnæa philippinensis, an intermediate host of Fasciola hepatica in the Philippines, with some observations on the bionomics of the parasite..... 299
One plate.

MARAÑON, JOAQUIN. Nutritive mineral value of Philippine food plants (calcium, phosphorus, and iron contents)..... 317

ALSTON, A. H. G. The Philippine species of Selaginella..... 359
Two plates.

ALEXANDER, CHARLES P. New or little-known Tipulidæ from eastern Asia (Diptera), XXVIII..... 385
Four plates.

No. 4, December, 1935

[Issued January 24, 1936.]

Page.

HERMANO, A. J., and P. J. AGUILA. The vitamin contents of Philippine foods, IV: Vitamins A and B_1 in various fruits and vegetables 425

TUBANGUI, MARCOS A., and VICTORIA A. MASILUÑGAN. Trematode parasites of Philippine vertebrates, VII: Additional records of new species 435
Three plates.

TUBANGUI, MARCOS A., MARIANO BASACA, ANTONIO M. PASCO, and FIDEL DEL ROSARIO. Observations on the geographical distribution of hookworm parasites and hookworm disease in the Philippines 447
Seven text figures.

GARCIA, O., R. VILLAAMIL, and C. PAÑGANIBAN. The purification of antidysenteric serum with sodium sulphate..... 471
One plate.

SERRANO, F. B. Pineapple yellow-spot in the Philippines..... 481
Four plates.

MENDOZA, JOSÉ MIGUEL, and SIMEONA LEUS-PALO. Three poisonous mushrooms 495
Three plates.

GALANG, RICARDO E. Ethnographic notes on the Isinais of Nueva Vizcaya 503
Three plates.

MACEDA, GENEROSO S. Some methods of circumcision in the Philippines 513
Two plates.

DOMANTAY, JOSÉ S. The culture of the Siamese fighting fish, Betta splendens 521

INDEX 529